

09/437,607

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NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 17 AUG 30 CA(SM)/CAPplus(SM) Austrian patent law changes
NEWS 18 SEP 11 CA/CAPplus enhanced with more pre-1907 records
NEWS 19 SEP 21 CA/CAPplus fields enhanced with simultaneous left and right
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=> s (Mn or manganese) and soil and (hyperaccumulat? or phytoremediat? or
phytoextract?)

16 FILES SEARCHED...

41 FILES SEARCHED...

L1 790 (MN OR MANGANESE) AND SOIL AND (HYPERACCUMULAT? OR PHYTOREMEDIAT?
? OR PHYTOEXTRACT?)

=> s l1 not PY>1995

9 FILES SEARCHED...

10 FILES SEARCHED...

26 FILES SEARCHED...

'1995' NOT A VALID FIELD CODE

30 FILES SEARCHED...

'1995' NOT A VALID FIELD CODE

42 FILES SEARCHED...

L2 20 L1 NOT PY>1995

=> s (Mn or Ni or Co or cobalt or nickel or manganese) and soil (3a) pH and
(phytoremediat? or phytoextract? or hyperaccumulat?)

16 FILES SEARCHED...

30 FILES SEARCHED...

L3 163 (MN OR NI OR CO OR COBALT OR NICKEL OR MANGANESE) AND SOIL (3A)
PH AND (PHYTOREMEDIAT? OR PHYTOEXTRACT? OR HYPERACCUMULAT?)

=> s l3 not PY>1995

9 FILES SEARCHED...

10 FILES SEARCHED...

26 FILES SEARCHED...

'1995' NOT A VALID FIELD CODE

30 FILES SEARCHED...

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42 FILES SEARCHED...

L4 7 L3 NOT PY>1995

=> dup remov

ENTER L# LIST OR (END):12

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PROCESSING COMPLETED FOR L2

L5 16 DUP REMOV L2 (4 DUPLICATES REMOVED)

=> remov dup 14

DUP IS NOT VALID HERE

The DELETE command is used to remove various items stored by the system.

To delete a saved query, saved answer set, saved L-number list, SDI request, batch request, mailing list, or user-defined cluster, format, or search field, enter the name. The name may include ? for left, right, or simultaneous left and right truncation.

Examples:

DELETE BIO?/Q	- delete query names starting with BIO
DELETE ?DRUG/A	- delete answer set names ending with DRUG
DELETE ?ELEC?/L	- delete L-number lists containing ELEC
DELETE ANTICOAG/S	- delete SDI request
DELETE ENZYME/B	- delete batch request
DELETE .MYCLUSTER	- delete user-defined cluster
DELETE .MYFORMAT	- delete user-defined display format
DELETE .MYFIELD	- delete user-defined search field
DELETE NAMELIST MYLIST	- delete mailing list

To delete an ordered document or an offline print, enter its number.

Examples:

DELETE P123001C	- delete print request
DELETE D134002C	- delete document order request

To delete an individual L-number or range of L-numbers, enter the L-number or L-number range. You may also enter DELETE LAST followed by a number, n, to delete the last n L-numbers. RENUMBER or NORENUMBER may also be explicitly specified to override the value of SET RENUMBER.

Examples:

DELETE L21	- delete a single L-number
DELETE L3-L6	- delete a range of L-numbers
DELETE LAST 4	- delete the last 4 L-numbers
DELETE L33-	- delete L33 and any higher L-number
DELETE -L55	- delete L55 and any lower L-number
DELETE L2-L6 RENUMBER	- delete a range of L-numbers and renumber remaining L-numbers
DELETE RENUMBER	- renumber L-numbers after deletion of intermediate L-numbers

Entire sets of saved items, SDI requests, batch requests, user-defined items, or E-numbers can be deleted.

Examples:

DELETE SAVED/Q	- delete all saved queries
DELETE SAVED/A	- delete all saved answer sets
DELETE SAVED/L	- delete all saved L-number lists
DELETE SAVED	- delete all saved queries, answer sets, and L-number lists
DELETE SAVED/S	- delete all SDI requests
DELETE SAVED/B	- delete all batch requests
DELETE CLUSTER	- delete all user-defined clusters
DELETE FORMAT	- delete all user-defined display formats
DELETE FIELD	- delete all user-defined search fields

DELETE SELECT - delete all E-numbers
DELETE HISTORY - delete all L-numbers and restart the
session at L1

To delete an entire multifile SDI request, enter DELETE and
the name of the request. To delete a component from the
multifile SDI, enter DELETE and the name of the component.

=> dup remov l4

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PROCESSING COMPLETED FOR L4

L6 6 DUP REMOV L4 (1 DUPLICATE REMOVED)

=> d his

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FILE 'CAPLUS, MEDLINE, BIOSIS, AGRICOLA, CABA, CAOLD, CASREACT, CROPU,
DGENE, DPCI, ENCOMPAT, EPFULL, FRANCEPAT, FRFULL, FSTA, GBFULL, IFIPAT,
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L1 790 S (MN OR MANGANESE) AND SOIL AND (HYPERACCUMULAT? OR PHYTOREMED

L2 20 S L1 NOT PY>1995

L3 163 S (MN OR NI OR CO OR COBALT OR NICKEL OR MANGANESE) AND SOIL (3

L4 7 S L3 NOT PY>1995

L5 16 DUP REMOV L2 (4 DUPLICATES REMOVED)

L6 6 DUP REMOV L4 (1 DUPLICATE REMOVED)

=> d l6 1-6

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1

AN 1995:553662 CAPLUS

DN 122:273182

TI Zinc and Cadmium Uptake by Hyperaccumulator *Thlaspi caerulescens*
and Metal Tolerant *Silene vulgaris* Grown on Sludge-Amended Soils

AU Brown, Sally L.; Chaney, Rufus L.; Angle, J. Scott; Baker, Alan J. M.

CS Department of Agronomy, University of Maryland, College Park, MD, 20742,
USA

SO Environmental Science and Technology (1995), 29(6), 1581-5

CODEN: ESTHAG; ISSN: 0013-936X

PB American Chemical Society

DT Journal

LA English

L6 ANSWER 2 OF 6 PCTFULL COPYRIGHT 2006 Univentio on STN

AN 1994029466 PCTFULL ED 20020513

TIEN PHYTOREMEDIATION OF METALS

TIFR PHYRODECONTAMINATION DE SOLS CONTAMINES PAR DES METAUX

IN RASKIN, Ilya;

KUMAR, Nanda, P., B., A.;

DOUCHENKOV, Slavik

PA PHYTOTECH, INC.

LA English

DT Patent

PI WO 9429466

A1 19941222

DS W: AT AU BR BY CA CN CZ HU JP PL RU SK UA AT BE CH DE DK ES

FR GB GR IE IT LU MC NL PT SE

AI WO 1994-US6178 A 19940602

PRAI US 1993-8/073,258 19930604

US 1994-8/252,234 19940601

ICM C12N015-82

ICS B09B003:00; A01H005:00

L6 ANSWER 3 OF 6 PCTFULL COPYRIGHT 2006 Univentio on STN
AN 1994025628 PCTFULL ED 20020513
TIEN METHOD FOR ACCELERATED BIOREMEDIATION AND METHOD OF USING AN APPARATUS THEREFOR
TIFR PROCEDE DE BIORESTAURATION ACCELEREE ET D'UTILISATION D'UN APPAREIL PREVU A CET EFFET
IN GLAZE, Bradley, S.;
WARNER, Kenneth, R.;
HORN, Terry, Dean;
HORN, Ronald, Dean
PA GLAZE, Bradley, S.;
WARNER, Kenneth, R.;
HORN, Terry, Dean;
HORN, Ronald, Dean
LA English
DT Patent
PI WO 9425628 A1 19941110
DS W: AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB HU JP KP KR
KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA UZ
VN AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ
CF CG CI CM GA GN ML MR NE SN TD TG

AI WO 1994-US3829 A 19940406
PRAI US 1993-8/043,666 19930406
US 1994-not furnished 19940405
ICM C12S013-00
ICS A62D003:00; C22B061:00

L6 ANSWER 4 OF 6 PCTFULL COPYRIGHT 2006 Univentio on STN
AN 1994001367 PCTFULL ED 20020513
TIEN A METHOD OF OBTAINING LEAD AND ORGANOLEAD FROM CONTAMINATED MEDIA USING METAL ACCUMULATING PLANTS
TIFR PROCEDE D'EXTRACTION DE PLOMB ET DE PLOMB ORGANIQUE DE MILIEUX CONTAMINES A L'AIDE DE PLANTES EMMAGASINANT LES METAUX
IN CUNNINGHAM, Scott, Daniel
PA E.I. DU PONT DE NEMOURS AND COMPANY
LA English
DT Patent
PI WO 9401367 A1 19940120
DS W: CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

AI WO 1993-US5996 A 19930628
PRAI US 1992-7/908,279 19920702
ICM C02F003-32
ICS C22B013:00

L6 ANSWER 5 OF 6 USPATFULL on STN
AN 94:99509 USPATFULL
TI Phytoremediation of metals
IN Raskin, Ilya, Manalapan, NJ, United States
Kumar, Nanda P. B. A., New Brunswick, NJ, United States
Douchenkov, Slavik, East Brunswick, NJ, United States
PA PhytoTech, Inc., Morristown, NJ, United States (U.S. corporation)
PI US 5364451 19941115
AI US 1993-73258 19930604 (8)
DT Utility
FS Granted
LN.CNT 671
INCL INCLM: 075/710.000
INCLS: 071/009.000; 210/602.000; 210/682.000; 210/688.000
NCL NCLM: 075/710.000
NCLS: 071/009.000; 210/602.000; 210/682.000; 210/688.000
IC [5]
ICM C21B009-00

ICS C22B009-00
 IPCI C21B0009-00 [ICM,5]; C22B0009-00 [ICS,5]
 IPCR B09C0001-10 [I,A]; B09C0001-10 [I,C*]; C12N0015-82 [I,A];
 C12N0015-82 [I,C*]
 EXF 075/710; 210/602; 210/682; 210/688; 071/9
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 6 USPATFULL on STN
 AN 94:51052 USPATFULL
 TI Method of obtaining lead and organolead from contaminated media using
 metal accumulating plants
 IN Cunningham, Scott D., Chaddsford, PA, United States
 PA E. I. Du Pont de Nemours and Company, Wilmington, DE, United States
 (U.S. corporation)
 PI US 5320663 19940614
 AI US 1992-908279 19920702 (7)
 DT Utility
 FS Granted
 LN.CNT 763
 INCL INCLM: 075/432.000
 INCLS: 210/602.000; 435/262.000; 435/267.000; 588/231.000
 NCL NCLM: 075/432.000
 NCLS: 210/602.000; 435/262.000; 435/267.000
 IC [5]
 ICM C12S001-00
 ICS C07G017-00; A62D003-00; C02F003-32
 IPCI C12S0001-00 [ICM,5]; C07G0017-00 [ICS,5]; A62D0003-00 [ICS,5];
 C02F0003-32 [ICS,5]
 IPCR C02F0003-32 [I,A]; C02F0003-32 [I,C*]; C22B0003-00 [I,C*];
 C22B0003-18 [I,A]; C22B0013-00 [I,A]; C22B0013-00 [I,C*]
 EXF 435/262; 435/267; 210/602; 588/231; 405/129; 075/432; 424/195.1
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 16 6 kwic

L6 ANSWER 6 OF 6 USPATFULL on STN
 SUMM . . . known to be toxic to most wildlife and man in relatively low
 concentrations. Elements such as lead, platinum, mercury, cadmium,
 cobalt, zinc, tin, arsenic, and chromium are used in many
 industrial applications and often significant levels of these metals are
 found. . . metals are also found in organic form such as
 organoarsenic and organotin, used as pesticides or herbicides, as well
 as nickel tetracarbonyl and tetraethyllead produced as
 by-products of the petroleum industry.
 SUMM . . . plant's response to a metalliferous environment ranges from
 active exclusion of the metallic species to tolerance to accumulation
 and even hyperaccumulation where concentrations may approach
 greater than 1% of plant dry matter. The phenomenon of accumulation and
 hyperaccumulation of metals by plants has been demonstrated over
 a wide range of plant families and to date it has not been possible to
 predict which plants of which families will function as metal
 accumulators and/or hyperaccumulators. Further complicating
 the issue is the fact that plants that might be classified as
 hyperaccumulators of one metal species may be barely tolerant of
 another. Hence the phenomenon is specific not only for plant type. . .
 Plants: Evolutionary Aspects" A. J. Shaw (ed.) CRC Press (1989)) For
 example various species of Alyssum are known to be
 hyperaccumulators of nickel reaching levels of 13400 ugNi/g but
 do not appear to be hyperaccumulators of other metals. Thlaspi
 sp. on the other hand demonstrate hyperaccumulation of a
 variety of metals including nickel, zinc, and lead. To date the plant
 that has shown the greatest ability. . . Metal Tolerance in Plants:
 Evolutionary Aspects", A. J. Shaw (ed.) CRC Press (1989)) A summary of

many of the known hyperaccumulators is included in Baker et. al., Terrestrial high plants which hyperaccumulate metallic elements--a review of their distribution, ecology and phytochemistry, Biorecovery, 1, 81, (1989) herein incorporated by reference.

SUMM The work surrounding the studies of accumulation and hyperaccumulation of metals by plants has been focused in the areas of using these plants as indicators of metal contamination and. . constituents In: "Land Treatment of Hazardous Wastes", Parr et al. (ed.) Noyes Data Corporation New Jersey (1983). Chaney notes that hyperaccumulators of nickle, and copper are known to accumulate these metals to as much as 1% of dry plant weight and. . .

SUMM . . . (Ambrosia artemisiifolia) and smartweed (Polygonum pennsylvanicum) isolated from a municipal landfill for concentrations of various heavy metals including Mh, Cu, Co, Cr, and Pb. The highest concentration of Pb that was recorded for either plant was 3.68 ppm dry weight of the plant. Mense does not teach accumulation or hyperaccumulation of lead by ragweed or dogbane.

SUMM The term "hyperaccumulator" refers to any plant that is capable of accumulating a metal species to levels equal to or greater than 10,000. . .

SUMM . . . rate of the plants and the bio-availability of lead in the soil. In the case of lead remediation the preferred pH of the soil is in a range of pH5-pH8. Phosphate is a requirement for ragweed or dogbane growth and soil is amended to. . .

DETD . . . (conc) mM
nutr.
in uM

1	0.32						
	KH.sub.2 PO.sub.4						
	136.09	1	P	0.010	Fe	10.0	
2	202.0						
	KNO.sub.3	101.1	1	K	1.5	Mn	1.0
3	493.0						
	MgSO.sub.4.7H.sub.2 O						
	246.5	1	Ca	2.0	B	1.0	
4	472.0						
	Ca(NO.sub.3).sub.2.4H.sub.2 O						
	236.16	2	Mg	1.0	Cu	0.2	
5	5.6. . . 18.6						
	Na.sub.2 EDTA.2H.sub.2 O						
	372.24						
6	74.6						
	KCl	74.55	1	N	5.0	Mo	0.2
7	0.124						
	H.sub.3 BO.sub.3						
	61.84	1	Cl	0.5	Ni	0.13	
1-7 in all							
	0.338						
	MnSO.sub.4.H.sub.2 O						
	169.01						Co 0.13
nutrient							
	0.576						
	ZnSO.sub.4.7H.sub.2 O						
	287.54						EDTA
							25.0
solutions							
	0.100						
	CuSO.sub.4.5H.sub.2 O						
	249.75						Pb 4.8
	0.576						
	MoO.sub.3	143.94					
	0.060						
	CoCl.sub.2.6H.sub.2 O						

DETD . . . nutrient medium defined in Table I. An identical set of seedlings were transplanted in METROMIX potting soil (Grace/Sierra Horticultural Products Co. Milpitas, Calif.) containing no lead as indicators of normal plant growth. All plants were grown for 30 days in a . . .

=> d 16 1-5

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1
 AN 1995:553662 CAPLUS
 DN 122:273182
 TI Zinc and Cadmium Uptake by Hyperaccumulator *Thlaspi caerulescens* and Metal Tolerant *Silene vulgaris* Grown on Sludge-Amended Soils
 AU Brown, Sally L.; Chaney, Rufus L.; Angle, J. Scott; Baker, Alan J. M.
 CS Department of Agronomy, University of Maryland, College Park, MD, 20742, USA
 SO Environmental Science and Technology (1995), 29(6), 1581-5
 CODEN: ESTHAG; ISSN: 0013-936X
 PB American Chemical Society
 DT Journal
 LA English

L6 ANSWER 2 OF 6 PCTFULL COPYRIGHT 2006 Univentio on STN
 AN 1994029466 PCTFULL ED 20020513
 TIEN PHYTOREMEDIATION OF METALS
 TIFR PHYRODECONTAMINATION DE SOLS CONTAMINES PAR DES METAUX
 IN RASKIN, Ilya;
 KUMAR, Nanda, P., B., A.;
 DOUCHENKOV, Slavik
 PA PHYTOTECH, INC.
 LA English
 DT Patent
 PI WO 9429466 A1 19941222
 DS W: AT AU BR BY CA CN CZ HU JP PL RU SK UA AT BE CH DE DK ES
 FR GB GR IE IT LU MC NL PT SE
 AI WO 1994-US6178 A 19940602
 PRAI US 1993-8/073,258 19930604
 US 1994-8/252,234 19940601
 ICM C12N015-82
 ICS B09B003:00; A01H005:00

L6 ANSWER 3 OF 6 PCTFULL COPYRIGHT 2006 Univentio on STN
 AN 1994025628 PCTFULL ED 20020513
 TIEN METHOD FOR ACCELERATED BIOREMEDIATION AND METHOD OF USING AN APPARATUS THEREFOR
 TIFR PROCEDE DE BIORESTAURATION 'ACCELEREE ET D'UTILISATION D'UN APPAREIL PREVU A CET EFFET
 IN GLAZE, Bradley, S.;
 WARNER, Kenneth, R.;
 HORN, Terry, Dean;
 HORN, Ronald, Dean
 PA GLAZE, Bradley, S.;
 WARNER, Kenneth, R.;
 HORN, Terry, Dean;
 HORN, Ronald, Dean
 LA English
 DT Patent
 PI WO 9425628 A1 19941110
 DS W: AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB HU JP KP KR
 KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA UZ
 VN AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ

CF CG CI CM GA GN ML MR NE SN TD TG

AI WO 1994-US3829 A 19940406
 PRAI US 1993-8/043,666 19930406
 US 1994-not furnished 19940405
 ICM C12S013-00
 ICS A62D003:00; C22B061:00

L6 ANSWER 4 OF 6 PCTFULL COPYRIGHT 2006 Univentio on STN
 AN 1994001367 PCTFULL ED 20020513
 TIEN A METHOD OF OBTAINING LEAD AND ORGANOLEAD FROM CONTAMINATED MEDIA USING
 METAL ACCUMULATING PLANTS
 TIFR PROCEDE D'EXTRACTION DE PLOMB ET DE PLOMB ORGANIQUE DE MILIEUX
 CONTAMINES A L'AIDE DE PLANTES EMMAGASINANT LES METAUX
 IN CUNNINGHAM, Scott, Daniel
 PA E.I. DU PONT DE NEMOURS AND COMPANY
 LA English
 DT Patent
 PI WO 9401367 A1 19940120
 DS W: CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
 AI WO 1993-US5996 A 19930628
 PRAI US 1992-7/908,279 19920702
 ICM C02F003-32
 ICS C22B013:00

L6 ANSWER 5 OF 6 USPATFULL on STN
 AN 94:99509 USPATFULL
 TI Phytoremediation of metals
 IN Raskin, Ilya, Manalapan, NJ, United States
 Kumar, Nanda P. B. A., New Brunswick, NJ, United States
 Douchenkov, Slavik, East Brunswick, NJ, United States
 PA PhytoTech, Inc., Morristown, NJ, United States (U.S. corporation)
 PI US 5364451 19941115
 AI US 1993-73258 19930604 (8)
 DT Utility
 FS Granted
 LN.CNT 671
 INCL INCLM: 075/710.000
 INCLS: 071/009.000; 210/602.000; 210/682.000; 210/688.000
 NCL NCLM: 075/710.000
 NCLS: 071/009.000; 210/602.000; 210/682.000; 210/688.000
 IC [5]
 ICM C21B009-00
 ICS C22B009-00
 IPCI C21B0009-00 [ICM,5]; C22B0009-00 [ICS,5]
 IPCR B09C0001-10 [I,A]; B09C0001-10 [I,C*]; C12N0015-82 [I,A];
 C12N0015-82 [I,C*]
 EXF 075/710; 210/602; 210/682; 210/688; 071/9
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.